

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)

2. (Original) A cooling device for a heat source, comprising:

(1) a heat sink including a coolant, said heat sink comprising:

(a) a first heat sink member with a heat source arranged at an outer surface of said heat sink; and

(b) a second heat sink member provided with a plurality of holes, said coolant that cools said heat source being made to pass through said holes;

(2) a header configured to an opposite side to said first heat sink member about said second heat sink member as an axis;

(3) an inlet port whereby said coolant is made to flow into a first space surrounded by said header and said second heat sink member; and

(4) an outlet port whereby said coolant in a second space surrounded by said first heat sink member and second heat sink member is made to flow out.

3. (Currently Amended) The cooling device for a heat source according to claim 1 ~~2~~, wherein an upright plate is provided on a downstream side of said header.

4. (Original) The cooling device for a heat source according to claim 2, wherein an upright plate provided on a downstream side of said header is made of arcuate shape such as to surround a hole.

5. (Currently Amended) The cooling device for a heat source according to claim 2, wherein ~~said~~ an upright plate provided on a downstream side of said header is provided offset from a center of ~~said~~ a hole.

6. (Currently Amended) The cooling device for a heat source according to claim-~~4~~ 2, wherein a gap between-said an upright plate provided on a downstream side of said header and a wall face on a side of said header opposite said holes is eliminated.

7. (Currently Amended) The cooling device for a heat source according to claim-~~4~~ 2, wherein a baffle plate is provided on an upstream side of said holes within said heat sink.

8. (Currently Amended) The cooling device for a heat source according to claim 6, wherein-the a baffle plate provided on an upstream side of said holes within said heat sink is made of an arcuate shape such as to surround a hole.

9. (Currently Amended) The cooling device for a heat source according to claim 6, wherein a gap between-said a baffle plate provided on an upstream side of said holes within said heat sink and said wall face on a side of said heat sink opposite said holes is eliminated.

10. (Currently Amended) The cooling device for a heat source according to claim-~~4~~ 2,

wherein an upright plate on a downstream side of ~~said~~ holes of said header and a baffle plate on an upstream side of said holes within said heat sink are provided.

11. (Original) The cooling device for a heat source according to claim 9, wherein said upright plate and said baffle plate respectively are made of an arcuate shape such as to surround a hole.

12. (Currently Amended) The cooling device for a heat source according to claim-~~4~~ 2,

wherein a porous fluid resistance is arranged between an upstream end of said header and said holes.

13. (Currently Amended) The cooling device for a heat source according to claim-1
2,

wherein a porous fluid resistance is arranged on an upstream side of said holes.

14. (Currently Amended) The cooling device for a heat source according to claim-1
2,

wherein a plurality of headers are arranged on a side of holes arranged in said heat sink opposite that of said heat source.

15. (Original) The cooling device for a heat source according to claim 13,

wherein a flow path is provided whereby said coolant flowing out from said holes is returned to another header from within said heat sink.

16. (Currently Amended) The cooling device for a heat source according to claim-1
2, wherein said cooling device is constructed divided into a part where said heat source is arranged, a part where said holes are arranged and a header part.

17. (Original) A cooling device for a heat source comprising:

a header wherein one or a plurality of holes are respectively provided in ~~a~~-wall faces on both sides;

a heat sink outside wall where a heat source is arranged on an outer surface with gaps being provided on both sides of said header;

an inlet port whereby ~~an~~ coolant flows into said header; and

an outlet port whereby said coolant within said heat sink flows out.